# 3-Minute Oral Presentations Winners

## Session 1 All Disciplines Graduate Students

**1st Place**

Keely Ahrold  
Graduate, Department of Kinesiology  
Faculty Mentor: Teri Todd  
*Overhand Throwing in Young Adults with Autism*

Shannon MacLaren and Katrina Wisely  
Graduate, Department of Social Work  
Faculty Mentor: James Decker  
*School Social Workers’ Perceptions of TDV in Their Schools and Their Previous Training Experience*

Trevor Ruppert  
Graduate, Department of Biology  
Faculty Mentor: Robert Espinoza  
*Physiological Limitations of Dispersal and Persistence in an Invasive Amphibian*

## 2nd Place

Helen Lozano  
Graduate, Department of Social Work  
Faculty Mentor: Hyun-Sun Park  
"*Can mobile applications (apps) support helping professionals in suicide prevention efforts?*

Terrence Stewart  
Graduate, Department of Social Work  
Faculty Mentor: Judith DeBonis  
*Exploring Why African Americans May Not Be Utilizing Mental Health Services: Clinical Perspective*

## Session 2 All Disciplines Undergraduate Students

**1st Place**

Ronelle Caguioa  
Undergraduate, Department of Biology & Chemistry and Biochemistry  
Faculty Mentor: Ravinder Abrol  
*Basis of Beta Arrestin Recruitment Over G-Protein Mediated Signaling by Atypical GPCR ACKR3*

Ryan Finden and Shawn Recinos  
Undergraduate, Department of Mechanical Engineering  
Faculty Mentor: Peter Bishay  
*Design Optimization of an Airfoil Structure Through Cross-Platform Finite Element Analysis*

Brian Richter  
Undergraduate, Department of Mechanical Engineering  
Faculty Mentor: Peter Bishay  
*Twisted and Coiled Polymers*

Sharon Truong and Misael Sanchez  
Undergraduate, Department of Chemistry and Biochemistry  
Faculty Mentor: Jessica Vey  
*Initial Characterization of DszA, a monooxygenase from the Rhodococcus Biodesulfurization Pathway*
2nd Place  Sandra Abadir  
Undergraduate, Department of Biology  
Faculty Mentor: Yoshie Hanzawa  
**Phosphorylation of the transcription factor FD by Calcium Dependent Protein Kinases and its roles in flowering control in plants**

Tristin Suhr and Robin Bochen  
Undergraduate, Department of Electrical and Computer Engineering  
Faculty Mentor: Vidya Nandikolla  
**Design and Construction of a FlexiForce Load Sensor Conditioning and Data Relay Device**

1st Place  William Brooks  
Undergraduate, Department of Music  
Faculty Mentor: Deanna Murray  
**Leveraging Experience to Address Arts Accessibility**

2nd Place  Raquel Menanno  
Undergraduate, Department of Urban Studies and Planning  
Faculty Mentor: Erica Wohldmann  
**Transportation as a Mode of Sustainability**

**Camino Thesis Winners**

1st Place  Jonathan Watts  
Graduate, Department of Health Sciences  
Faculty Mentor: Patty Kawn  
**Associations Between Counseling Services and Depressive Affect in College Students**

2nd Place  Daniel Parsons  
Graduate, Department of Kinesiology  
Faculty Mentor: Teri Todd  
**Effects of Surf Therapy on Young Adults with Autism Spectrum Disorder**

Jenica Smith  
Graduate, Department of Family and Consumer Sciences  
Faculty Mentor: Nelida Duran  
**Analysis of Food Insecurity Among College-aged Students at California State University, Northridge**
10-Minute Oral Presentations Winners

Session 1, Science & Math

1st Place
Samatar Jirde
Graduate, Department of Chemistry and Biochemistry
Faculty Mentor: Jessica Vey
Investigating the Kinetics and Mechanism of a Biodesulfurizing Enzyme, Dibenzothiophene Monoxygenase

2nd Place
Bret Sample
Graduate, Department of Geological Science
Faculty Mentor: Robinson Cecil
Detrital zircon analysis of Miocene strata of the El Paso Basin, southern California, and new constraints on uplift of the Southern Sierra Nevada

Session 2, Social & Behavioral Sciences

1st Place
Christian Citlali and Alexander Nava
Graduate, Department of Social Work
Faculty Mentor: Lauren Willner
Health Care Providers Voices: Highlighting Transgender Youth Barriers to Accessing Health Services

2nd Place
Yadira Tejeda
Graduate, Department of Social Work
Faculty Mentor: Jodi Brown
Homeless Former Foster Youth: Challenges Exiting the Foster System

Session 3, Science & Math

1st Place
Vanessa Wolf, BUILD Grant
Undergraduate, Department of Mathematics
Faculty Mentor: Maria-Rita D'Orsogna
Investigating the Complex Network Properties of the Electric Grid

2nd Place
Shannen Guarina
Undergraduate, Department of Chemistry and Biochemistry
Faculty Mentor: Gagik Melikyan
Allylic Rearrangements in Reductive Coupling Reactions of Vinyl Propargyl Alcohols

Salma Walker
Undergraduate, Department of Physics and Astronomy
Faculty Mentor: Henk Postma
Linearity Analysis and Efficiency Testing of The Chromospheric Lyman-Alpha Spectro-Polarimeter (CLASP) Science Cameras for Flight

Session 4, Science & Math

1st Place
Stacey Gallegos
Undergraduate, Department of Biology
Faculty Mentor: Cindy Malone
Glial Enriched Progenitor Cells: a Novel Cell-Based Therapy for White Matter Stroke
Lawrence Shaktah
Graduate, Department of Biology
Faculty Mentor: Cindy Malone
Regulation and Promoter Region Characterization of the PDCD6IP Gene

Niveditha Ramadoss
Graduate, Department of Biology
Faculty Mentor: Chhandak Basu
Functional Characterization of Transgenic Arabidopsis Thaliana Plants Over-Expressing Aminocyclopropane-1-Carboxylic Acid Oxidase Gene

Sarkis Hamalian
Graduate, Department of Biology
Faculty Mentor: Jonathan Kelber
Novel Tumor-Promoting Functions of PEAK1 Kinase in the Fibroblast Compartment of Breast Cancer Stroma

Erin Hong
Graduate, Department of Mechanical Engineering
Faculty Mentor: Christoph Schaal
Reverse Engineering Stiffened Plates Using Guided Wave-Based Nondestructive Testing Methods

Meaghan Clark
Graduate, Department of Biology
Faculty Mentor: Jeanne Robertson
Unraveling the Rainbow: Evolutionary History of Red-Eyed Treefrogs in a Hotspot of Color-Pattern Diversity

Rachel Larson
Graduate, Department of Biology
Faculty Mentor: Tim Karels
Seasonal Variation in Resource Use of Urban and Suburban Coyotes in Southern California

Michelle Olmos
Undergraduate, Department of Biology
Faculty Mentor: Randy Cohen
Utilizing Apigenin to Attenuate Effects of Oxidative Stress in the Spastic Han-Wistar Rat, a Model of Ataxia

Bobby Teng
Undergraduate, Department of Biology
Faculty Mentor: Lisa Banner
Modification of Gut Microbiota through Brassicaceae and Asteraceae Plants (Kale, Arugula, Dandelion) Modulate Neurodegeneration and Memory in Diet-Induced Obese Pre-Diabetic C57BL/6 Mice
2nd Place  Nicolas Lopez  
Undergraduate, Department of Biology  
Faculty Mentor: Cristian Ruiz-Rueda  
Isolation and Characterization of Carbapenem-Resistant Bacteria in Los Angeles Area Soils

1st Place  Isaac Villegas  
Undergraduate, Department of Biology  
Faculty Mentor: Cindy Malone  
Optimizing CD40L Donor Constructs for Gene Editing of X-Linked Hyper-IgM Syndrome

2nd Place  Mineli Harteni  
Undergraduate, Department of Biology  
Faculty Mentor: Cindy Malone  
Differentiation of hESCs into OPCs to Create Chimeric Mouse Model of Human Brain Cancer

Session 9, Health & Human Development and Science & Math

1st Place  Daniel Parsons  
Graduate, Department of Kinesiology  
Faculty Mentor: Teri Todd  
The effects of Surf Therapy on Self-Determination and Quality of Life in Young Adults with Autism Spectrum Disorder

2nd Place  Justin Shamunee  
Graduate, Department of Kinesiology  
Faculty Mentor: Taeyou Jung  
Comparison of Brain Hemodynamic Responses to Forward versus Backward Walking among People Post-Stroke

Session 10, Health & Human Development

1st Place  Claudia Brade and Darleen Principe  
Graduate, Department of Journalism  
Faculty Mentor: Melissa Wall  
A Year of Activism

2nd Place  Cassidy Owen  
Graduate, Department of Sociology  
Faculty Mentor: David Boyns  
The Impact of Financial Debt on the Homeless Population

Session 11, Arts, Media & Communication, Education and Social & Behavioral Sciences

1st Place  Krishna Narayanamurti  
Graduate, Department of English  
Faculty Mentor: Iswari Pandey  
Universal Individuality: The Borderless, New Adult Poetry of Rupi Kaur

2nd Place  John Jawiche and Kimberly Mcgee  
Undergraduate, Department of Psychology  
Faculty Mentor: Elise Fenn  
Testing Stereotype Threat Reduction in Mock Law Enforcement Interviews

Session 12, Humanities

1st Place  John Jawiche and Kimberly Mcgee  
Undergraduate, Department of Psychology  
Faculty Mentor: Elise Fenn  
Testing Stereotype Threat Reduction in Mock Law Enforcement Interviews
**Session 14, Health & Human Development and Humanities**

1st Place

Shawntel Barreiro
Undergraduate, Department of Chicano/a Studies & Linguistics
Faculty Mentor: Heidi Schumacher

Central American Dialectal Convergence towards Los Angeles Vernacular Spanish (LAVS)

2nd Place

Iris Ramirez and Bhernard Tila
Undergraduate, Department of Asian American Studies & Chicano/a Studies
Faculty Mentor: Rosemary Gonzalez

Refugees Seeking Asylum: Navigating Immigration Policy and Higher Education (A Study on Unaccompanied Minors and Mixed-Status Families)

Kenia Rodriguez
Undergraduate, Department of English
Faculty Mentor: Heidi Schumacher

To Love and To Hold: Perceptions of the Evolution of the Ideal Wife from the Middle Ages to the 17th Century

**Session 15, Engineering & Computer Science**

1st Place

Bret Raquipiso
Undergraduate, Department of Mechanical Engineering
Faculty Mentor: Peter Bishay

Development of a New, Innovative, Smart Prosthetic Hand

**Session 16, Science & Math**

1st Place

Garrett Limon
Graduate, Department of Physics and Astronomy
Faculty Mentor: Tyler Luchko

Development and Implementation of Multigrid Solver into the 3D Reference Interaction Site Model (3D-RISM) Source Code

**Session 17, Social & Behavioral Sciences**

1st Place

Rebecca Esquenazi
Graduate, Department of Psychology
Faculty Mentor: Stefanie Drew

An Investigation into the Disinhibited Feedback Theory of Synesthesia

**Session 18, Social & Behavioral Sciences**

1st Place

Tanya Oleskowiz
Graduate, Department of Psychology
Faculty Mentor: Sara Berzenski

Maltreatment Chronicity and Personality Disorder Development: Contributions of Physiological and Emotion Regulation

**Session 19, Science & Math**

1st Place

Tara Mahendrarajah
Graduate, Department of Biology
Faculty Mentor: Rachel Mackelprang

Carbon Metabolism in Pleistocene Permafrost Microbial Communities
Poster Winners

**Morning Poster Presentations, Graduate Students**

**1st Place**
Ranelle Buck  
Graduate, Department of Biology  
Faculty Mentor: David Bermudes  
*Expression of Wild Type and Altered E. coli Cytotoxic Necrotizing Factor 1 by Tumor-Targeted Salmonella*

Marina Nakhla  
Graduate, Department of Psychology  
Faculty Mentor: Jill Razani  
*Time Spent in the U.S. as a Sensitive Predictor of Full Scale Intelligence Quotient in Middle Easterners*

**2nd Place**
Kyung (Esther) Hwang  
Graduate, Department of Psychology  
Faculty Mentor: Holli Tonyan  
*Young Children’s Social and Emotional Competence of Mixed-Age Interaction in Family Child Care*

**Morning Poster Presentations, Undergraduate Students**

**1st Place**
Madeline Awad, Jeannette Buenrostro, Daniel Del Cid and Sara Lundqvist  
Undergraduate, Department of Psychology  
Faculty Mentor: Stefanie Drew  
*Examining Visual Symptoms in a Diverse Population*

Gabriella Hinojosa, Erika Almira and Antranik Kirakosian, BUILD Grant  
Undergraduate, Department of Psychology  
Faculty Mentor: Scott Plunkett  
*Parental Support and Psychological Control, Responsive Joy and Distress, and University Students’ Happiness, Depression, and Anger*

**2nd Place**
Omar Ullah, BUILD Grant  
Undergraduate, Department of Child and Adolescent Development  
Faculty Mentor: Shu-Sha Angie Guan  
*Ethnic-Racial Health Disparities: Examining the Roles of Discrimination and Social Context*
Afternoon Poster Presentations, Graduate Students

1st Place  Emma Collosi
Graduate, Department of Biology
Faculty Mentor: Jeanne Robertson
Hybridizing in Plain Sight: Evolutionary Mechanisms of Substrate Matching in Cryptically Colored Crickets

2nd Place  Elizabeth Hernandez
Graduate, Department of Psychology
Faculty Mentor: Tara Fahmie
Further Evaluation of a Laboratory Model to Study the Prevention of Problem Behavior

Afternoon Poster Presentations, Undergraduate Students

1st Place  Alaniz Sarai, Jessie Bridgewater, Lizbeth Morales and Henry Villanueva, BUILD Grant
Undergraduate, Department of Psychology
Faculty Mentor: Jonathan Martinez
Understanding Therapists’ Knowledge and Confidence of Parent Engagement Strategies in Community-Based Mental Health Services

2nd Place  Chiemelie Onyekownu, BUILD Grant
Undergraduate, Department of Biology
Faculty Mentor: Virginia Huynh
Examining the Relationship Between Accent Discrimination and Stress in College Students